



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/827,121

DATE: 09/13/2004

TIME: 11:16:40

Input Set : A:\407J-981114US.ST25.txt

Output Set: N:\CRF4\09132004\J827121.raw

3 <110> APPLICANT: The Regents of the University of California
 4 Baxter, John D
 5 Fletterick, Robert J
 6 Kushner, Peter J
 8 <120> TITLE OF INVENTION: Nuclear Receptor Ligands and Ligand Binding Domains
 10 <130> FILE REFERENCE: 407J-981114US
 12 <140> CURRENT APPLICATION NUMBER: US 10/827,121
 13 <141> CURRENT FILING DATE: 2004-04-16
 15 <160> NUMBER OF SEQ ID NOS: 16
 17 <170> SOFTWARE: PatentIn version 3.2
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 410
 21 <212> TYPE: PRT
 22 <213> ORGANISM: Rattus sp.
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 30 Asn Ser Ala Arg Ser Pro Asp Gly Lys Arg Lys Arg Lys Asn Gly Gln
 31 20 25 30
 34 Cys Pro Leu Lys Ser Ser Met Ser Gly Tyr Ile Pro Ser Tyr Leu Asp
 35 35 40 45
 38 Lys Asp Glu Gln Cys Val Val Cys Gly Asp Lys Ala Thr Gly Tyr His
 39 50 55 60
 42 Tyr Arg Cys Ile Thr Cys Glu Gly Cys Lys Gly Phe Phe Arg Arg Thr
 43 65 70 75 80
 46 Ile Gln Lys Asn Leu His Pro Thr Tyr Ser Cys Lys Tyr Asp Ser Cys
 47 85 90 95
 50 Cys Val Ile Asp Lys Ile Thr Arg Asn Gln Cys Gln Leu Cys Arg Phe
 51 100 105 110
 54 Lys Lys Cys Ile Ala Val Gly Met Ala Met Asp Leu Val Leu Asp Asp
 55 115 120 125
 58 Ser Lys Arg Val Ala Lys Arg Lys Leu Ile Glu Gln Asn Arg Glu Arg
 59 130 135 140
 62 Arg Arg Lys Glu Glu Met Ile Arg Ser Leu Gln Gln Arg Pro Glu Pro
 63 145 150 155 160
 66 Thr Pro Glu Glu Trp Asp Leu Ile His Val Ala Thr Glu Ala His Arg
 67 165 170 175
 70 Ser Thr Asn Ala Gln Gly Ser His Trp Lys Gln Arg Arg Lys Phe Leu
 71 180 185 190
 74 Pro Asp Asp Ile Gly Gln Ser Pro Ile Val Ser Met Pro Asp Gly Asp
 75 195 200 205
 78 Lys Val Asp Leu Glu Ala Phe Ser Glu Phe Thr Lys Ile Ile Thr Pro
 79 210 215 220

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82 Ala Ile Thr Arg Val Val Asp Phe Ala Lys Lys Leu Pro Met Phe Ser
 83 225 230 235 240
 86 Glu Leu Pro Cys Glu Asp Gln Ile Ile Leu Leu Lys Gly Cys Cys Met
 87 245 250 255
 90 Glu Ile Met Ser Leu Arg Ala Ala Val Arg Tyr Asp Pro Glu Ser Asp
 91 260 265 270
 94 Thr Leu Thr Leu Ser Gly Glu Met Thr Val Lys Arg Lys Gln Leu Lys
 95 275 280 285
 98 Asn Gly Gly Leu Gly Val Val Ser Asp Ala Ile Phe Glu Leu Gly Lys
 99 290 295 300
 102 Ser Leu Ser Ala Phe Asn Leu Asp Asp Thr Glu Val Ala Leu Leu Gln
 103 305 310 315 320
 106 Ala Val Leu Leu Met Ser Thr Asp Arg Ser Gly Leu Leu Cys Val Asp
 107 325 330 335
 110 Lys Ile Glu Lys Ser Gln Glu Ala Tyr Leu Leu Ala Phe Glu His Tyr
 111 340 345 350
 114 Val Asn His Arg Lys His Asn Ile Pro His Phe Trp Pro Lys Leu Leu
 115 355 360 365
 118 Met Lys Val Thr Asp Leu Arg Met Ile Gly Ala Cys His Ala Ser Arg
 119 370 375 380
 122 Phe Leu His Met Lys Val Glu Cys Pro Thr Glu Leu Phe Pro Pro Leu
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 132 <212> TYPE: PRT
 133 <213> ORGANISM: Homo sapiens
 135 <400> SEQUENCE: 2
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 141 Asn Ser Ala Arg Ser Pro Asp Gly Lys Arg Lys Arg Lys Asn Gly Gln
 142 20 25 30
 145 Cys Ser Leu Lys Thr Ser Met Ser Gly Tyr Ile Pro Ser Tyr Leu Asp
 146 35 40 45
 149 Lys Asp Glu Gln Cys Val Val Cys Gly Asp Lys Ala Thr Gly Tyr His
 150 50 55 60
 153 Tyr Arg Cys Ile Thr Cys Glu Gly Cys Lys Gly Phe Phe Arg Arg Thr
 154 65 70 75 80
 157 Ile Gln Lys Asn Leu His Pro Thr Tyr Ser Cys Lys Tyr Asp Ser Cys
 158 85 90 95
 161 Cys Val Ile Asp Lys Ile Thr Arg Asn Gln Cys Gln Leu Cys Arg Phe
 162 100 105 110
 165 Lys Lys Cys Ile Ala Val Gly Met Ala Met Asp Leu Val Leu Asp Asp
 166 115 120 125
 169 Ser Lys Arg Val Ala Lys Arg Lys Leu Ile Glu Gln Asn Arg Glu Arg
 170 130 135 140
 173 Arg Arg Lys Glu Glu Met Ile Arg Ser Leu Gln Gln Arg Pro Glu Pro
 174 145 150 155 160

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177 Thr Pro Glu Glu Trp Asp Leu Ile His Ile Ala Thr Glu Ala His Arg
 178 165 170 175
 181 Ser Thr Asn Ala Gln Gly Ser His Trp Lys Gln Arg Arg Lys Phe Leu
 182 180 185 190
 185 Pro Asp Asp Ile Gly Gln Ser Pro Ile Val Ser Met Pro Asp Gly Asp
 186 195 200 205
 189 Lys Val Asp Leu Glu Ala Phe Ser Glu Phe Thr Lys Ile Ile Thr Pro
 190 210 215 220
 193 Ala Ile Thr Arg Val Val Asp Phe Ala Lys Lys Leu Pro Met Phe Ser
 194 225 230 235 240
 197 Glu Leu Pro Cys Glu Asp Gln Ile Ile Leu Leu Lys Gly Cys Cys Met
 198 245 250 255
 201 Glu Ile Met Ser Leu Arg Ala Ala Val Arg Tyr Asp Pro Glu Ser Asp
 202 260 265 270
 205 Thr Leu Thr Leu Ser Gly Glu Met Ala Val Lys Arg Glu Gln Leu Lys
 206 275 280 285
 209 Asn Gly Gly Leu Gly Val Val Ser Asp Ala Ile Phe Glu Leu Gly Lys
 210 290 295 300
 213 Ser Leu Ser Ala Phe Asn Leu Asp Asp Thr Glu Val Ala Leu Leu Gln
 214 305 310 315 320
 217 Ala Val Leu Leu Met Ser Thr Asp Arg Ser Gly Leu Leu Cys Val Asp
 218 325 330 335
 221 Lys Ile Glu Lys Ser Gln Glu Ala Tyr Leu Leu Ala Phe Glu His Tyr
 222 340 345 350
 225 Val Asn His Arg Lys His Asn Ile Pro His Phe Trp Pro Lys Leu Leu
 226 355 360 365
 229 Met Lys Val Thr Asp Leu Arg Met Ile Gly Ala Cys His Ala Ser Arg
 230 370 375 380
 233 Phe Leu His Met Lys Val Glu Cys Pro Thr Glu Leu Phe Pro Pro Leu
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 237 Phe Leu Glu Val Phe Glu Asp Gln Glu Val
 238 405 410
 241 <210> SEQ ID NO: 3 }
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 244 <213> ORGANISM: Homo sapiens
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 252 Pro Lys His Cys Pro Asp Arg Glu His Asp Trp Lys Leu Val Gly Met
 253 20 25 30
 256 Ser Glu Ala Cys Leu His Arg Lys Ser His Ser Glu Arg Arg Ser Thr
 257 35 40 45
 260 Leu Lys Asn Glu Gln Ser Ser Pro His Leu Ile Gln Thr Thr Trp Thr
 261 50 55 60
 264 Ser Ser Ile Phe His Leu Asp His Asp Asp Val Asn Asp Gln Ser Val
 265 65 70 75 80
 268 Ser Ser Ala Gln Thr Phe Gln Thr Glu Glu Lys Lys Cys Lys Gly Tyr
 269 85 90 95

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272 Ile Pro Ser Tyr Leu Asp Lys Asp Glu Leu Cys Val Val Cys Gly Asp
 273 100 105 110
 276 Lys Ala Thr Gly Tyr His Tyr Arg Cys Ile Thr Cys Glu Gly Cys Lys
 277 115 120 125
 280 Gly Phe Phe Arg Arg Thr Ile Gln Lys Asn Leu His Pro Ser Tyr Ser
 281 130 135 140
 284 Cys Lys Tyr Glu Gly Lys Cys Val Ile Asp Lys Val Thr Arg Asn Gln
 285 145 150 155 160
 288 Cys Gln Glu Cys Arg Phe Lys Lys Cys Ile Tyr Val Gly Met Ala Thr
 289 165 170 175
 292 Asp Leu Val Leu Asp Asp Ser Lys Arg Leu Ala Lys Arg Lys Leu Ile
 293 180 185 190
 296 Glu Glu Asn Arg Glu Lys Arg Arg Glu Glu Leu Gln Lys Ser Ile
 297 195 200 205
 300 Gly His Lys Pro Glu Pro Thr Asp Glu Glu Trp Glu Leu Ile Lys Thr
 301 210 215 220
 304 Val Thr Glu Ala His Val Ala Thr Asn Ala Gln Gly Ser His Trp Lys
 305 225 230 235 240
 308 Gln Lys Pro Lys Phe Leu Pro Glu Asp Ile Gly Gln Ala Pro Ile Val
 309 245 250 255
 312 Asn Ala Pro Glu Gly Lys Val Asp Leu Glu Ala Phe Ser His Phe
 313 260 265 270
 316 Thr Lys Ile Ile Thr Pro Ala Ile Thr Arg Val Val Asp Phe Ala Lys
 317 275 280 285
 320 Lys Leu Pro Met Phe Cys Glu Leu Pro Cys Glu Asp Gln Ile Ile Leu
 321 290 295 300
 324 Leu Lys Gly Cys Cys Met Glu Ile Met Ser Leu Arg Ala Ala Val Arg
 325 305 310 315 320
 328 Tyr Asp Pro Glu Ser Glu Thr Leu Thr Leu Asn Gly Glu Met Ala Val
 329 325 330 335
 332 Ile Arg Gly Gln Leu Lys Asn Gly Leu Gly Val Val Ser Asp Ala
 333 340 345 350
 336 Ile Phe Asp Leu Gly Met Ser Leu Ser Ser Phe Asn Leu Asp Asp Thr
 337 355 360 365
 340 Glu Val Ala Leu Leu Gln Ala Val Leu Leu Met Ser Ser Asp Arg Pro
 341 370 375 380
 344 Gly Leu Ala Cys Val Glu Arg Ile Glu Lys Tyr Gln Asp Ser Phe Leu
 345 385 390 395 400
 348 Leu Ala Phe Glu His Tyr Ile Asn Tyr Arg Lys His His Val Thr His
 349 405 410 415
 352 Phe Trp Pro Lys Leu Leu Met Lys Val Thr Asp Leu Arg Met Ile Gly
 353 420 425 430
 356 Ala Cys His Ala Ser Arg Phe Leu His Met Lys Val Glu Cys Pro Thr
 357 435 440 445
 360 Glu Leu Leu Pro Pro Leu Phe Leu Glu Val Phe Glu Asp
 361 450 455 460
 364 <210> SEQ ID NO: 4
 365 <211> LENGTH: 416
 366 <212> TYPE: PRT

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367 <213> ORGANISM: Homo sapiens
 369 <400> SEQUENCE: 4
 371 Pro Asn Ser Asn His Val Ala Ser Gly Ala Gly Glu Ala Ala Ile Glu
 372 1 5 10 15
 375 Thr Gln Ser Ser Ser Ser Glu Glu Ile Val Pro Ser Pro Pro Ser Pro
 376 20 25 30
 379 Pro Pro Leu Pro Arg Ile Tyr Lys Pro Cys Phe Val Cys Gln Asp Lys
 380 35 40 45
 383 Ser Ser Gly Tyr His Tyr Gly Val Ser Ala Cys Glu Gly Cys Lys Gly
 384 50 55 60
 387 Phe Phe Arg Arg Ser Ile Gln Lys Asn Met Val Tyr Thr Cys His Arg
 388 65 70 75 80
 391 Asp Lys Asn Cys Ile Ile Asn Lys Val Thr Arg Asn Arg Cys Gln Tyr
 392 85 90 95
 395 Cys Arg Leu Gln Lys Cys Phe Glu Val Gly Met Ser Lys Glu Ser Val
 396 100 105 110
 399 Arg Asn Asp Arg Asn Lys Lys Lys Glu Val Pro Lys Pro Glu Cys
 400 115 120 125
 403 Ser Glu Ser Tyr Thr Leu Thr Pro Glu Val Gly Glu Leu Ile Glu Lys
 404 130 135 140
 407 Val Arg Lys Ala His Gln Glu Thr Phe Pro Ala Leu Cys Gln Leu Gly
 408 145 150 155 160
 411 Lys Tyr Thr Thr Asn Asn Ser Ser Glu Gln Arg Val Ser Leu Asp Ile
 412 165 170 175
 415 Asp Leu Trp Asp Lys Phe Ser Glu Leu Ser Thr Lys Cys Ile Ile Lys
 416 180 185 190
 419 Thr Val Glu Phe Ala Lys Gln Leu Pro Gly Phe Thr Thr Leu Thr Ile
 420 195 200 205
 423 Ala Asp Gln Ile Thr Leu Leu Lys Ala Ala Cys Leu Asp Ile Leu Ile
 424 210 215 220
 427 Leu Arg Ile Cys Thr Arg Tyr Thr Pro Glu Gln Asp Thr Met Thr Phe
 428 225 230 235 240
 431 Ser Asp Gly Leu Thr Leu Asn Arg Thr Gln Met His Asn Ala Gly Phe
 432 245 250 255
 435 Gly Pro Leu Thr Asp Leu Val Phe Ala Phe Ala Asn Gln Leu Leu Pro
 436 260 265 270
 439 Leu Glu Met Asp Asp Ala Glu Thr Gly Ile Leu Ser Ala Ile Cys Leu
 440 275 280 285
 443 Ile Cys Gly Asp Arg Gln Asp Leu Glu Gln Pro Asp Arg Val Asp Met
 444 290 295 300
 447 Leu Gln Glu Pro Leu Leu Glu Ala Leu Lys Val Tyr Val Arg Lys Arg
 448 305 310 315 320
 451 Arg Pro Ser Arg Pro His Met Phe Pro Lys Met Leu Met Lys Ile Thr
 452 325 330 335
 455 Asp Leu Arg Ser Ile Ser Ala Lys Gly Ala Glu Arg Val Ile Thr Leu
 456 340 345 350
 459 Lys Met Glu Ile Pro Gly Ser Met Pro Pro Leu Ile Gln Glu Met Leu
 460 355 360 365
 463 Glu Asn Ser Glu Gly Leu Asp Thr Leu Ser Gly Gln Pro Gly Gly

VERIFICATION SUMMARY

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